Lab 2.4.2 Installing and Uninstalling Client Adapter/Utilities

Estimated Time: 15 Minutes

Number of Team Members: six teams with two students per team

Objective

The student will learn the procedures for installing the client adapter in the PC for wireless networking.

Scenario

Install a wireless LAN adapter card and make it work.

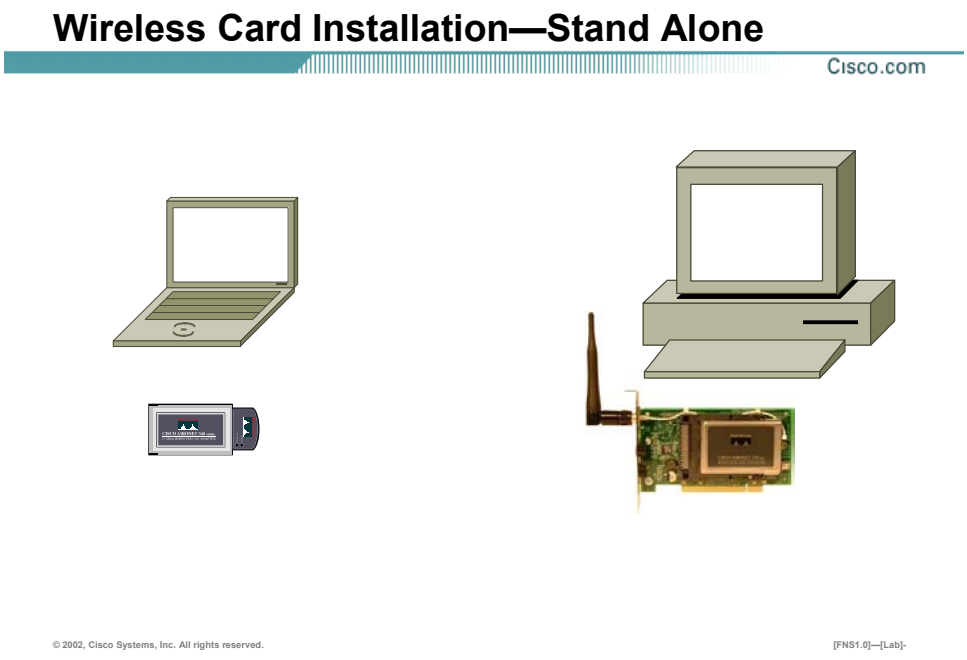

Figure 1 The lab network environment

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PCI352

PCM352

CB20A

Preparation

This lab will require the following materials:

- Desktop or Laptop PC
- Appropriate wireless client adapter card
- One Cisco Aironet PCI352, CB20A, or PCM 352 Client Adapter Network Interface Card.

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- One PC installed with a Microsoft Operating System
- One Screwdriver for PCI card installation

Step 1

The Cisco Aironet PCM 352 Client Adapter installs into the PCMCIA slot. The CB20A installs into the Laptop PC cardbus slot. A CardBus adapter will not fit completely into a PCMCIA laptop slot. A PCMCIA adapter will fit in a PCMCIA slot or a CardBus slot.

Turn off the PC and all the components.

Remove the computer cover.

Remove the screw from the top of the CPU back panel above an empty PCI expansion slot. This screw holds the metal bracket on the back panel.

Examine the client adapter. The antenna connector and the LEDs face out of the computer and are visible when the cover is placed back on.

Tilt the adapter to allow the antenna connector and LEDs to slip through the opening in the CPU back panel.

Press the client adapter into the empty slot until the connector is firmly seated.

Reinstall the screw on the CPU back panel and replace the computer cover.

Attach the 2-dBi “rubber duckie” antenna to the adapter antenna connector until it is finger-tight.

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For optimal reception, position the antenna so it is straight up.

Boot up the computer and proceed to Step 2. Install the drivers for Windows.

Step 2

Install the drivers for Windows

After the client adapter is installed into the computer, Windows automatically detects it and briefly opens the Found New Hardware window.

The Found New Hardware Wizard window opens and indicates that the wizard will help to install the driver.

Click Next. Another window opens and asks what the wizard should do.

Select the recommended **Search for a suitable driver for my device** and click **Next**.

Select CD-ROM drives. Deselect all other options. Insert the Cisco Aironet Series Wireless LAN Adapters CD into the computer CD-ROM drive. Click **Next**.

The wizard finds the installation files on the CD and displays the search results.

When the client adapter driver is displayed, click **Next** to copy the required files.

When Windows has finished the installation, click **Finish**.

Remove the CD from the computer CD-ROM drive.

Step 3

Install the Aironet Client Utilities (ACU)

To install or use the client utilities on Windows NT or Windows 2000 systems, a user must log onto the system as a user with administrative privileges. The utilities do not install or operate correctly for users not logged in with administrative rights.

Select **Start** then **Run** and enter the following path: **d:\Utilities\ACU\setup.exe**. “d” is the letter of the CD-ROM drive.

When the Welcome screen appears, click **Next**.

In the Authentication Method screen, select **None,** the default value, for server-based authentication is not enabled for a client adapter and click **Next**.

After the client utilities are installed, a user can elect not to implement any security features, or a user can activate some level of security by using WEP keys.

In the Select Components screen, make sure the client utilities are selected. Make sure that any undesired utilities are deselected. Click **Next**.

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In the Select Program Folder screen, click **Next** to allow icons for the client utilities to be placed in the Cisco Systems, Inc. folder.

In the Setup Complete screen, perform the following:

If no server-based authentication was selected in Step 3, select **Launch the Aironet Client Utility** and click **Finish**. The ACU opens so that the client adapter can be configured.

Step 4

Configure the SSID through windows.

Double-click **My Computer**, **Control Panel**, and **System**.

In the System Properties window, click the **Hardware** tab.

Click **Device Manager**.

In the Device Manager window, double-click **Network Adapters**.

Right-click the **Cisco Systems 350 Series PCMCIA Wireless LAN adapter**.

Click **Properties**.

In the client adapter Properties window, click the **Advanced** tab.

In the Advanced window, select **Client Name**. Type the unique client name of the computer in the Value dialog box.

Select **SSID**. Type the RF network SSID, as assigned by the instructor, in the Value dialog box. Remember the SSID is case-sensitive. Click **OK**.

Step 5

Complete the driver installation without a DHCP server.

Double-click **My Computer**, **Control Panel**, and **Network and Dial-up Connections**.

Right-click **Local Area Connection**.

Click **Properties**, **Internet Protocol (TCP/IP)**, and **Properties**.

Click **Use the following IP address** and enter the IP address, subnet mask, and default gateway address of the computer which can be obtained from the instructor. Click **OK**.

In the Local Area Connection Properties window, click **OK**.

If prompted to restart the computer, click **Yes**.

The driver installation is complete.

Step 6

Verify the TCP/IP settings

Select **Start** > **Run** and enter the following:

On Win2000 or XP, enter **cmd** to bring up the command prompt. While at the command prompt, type in **ipconfig /all** to verify the IP settings.

On Win95 or 98, enter **winipcfg** to bring up the IP configuration status.

Step 7

Uninstall the Client Utilities

Close any Windows programs that are running.

Insert the Cisco Aironet Series Wireless LAN Adapters CD into the computer CD-ROM drive.

Select **Start** then **Run** and enter the following path: **d:\Utilities\ACU\setup.exe**. d is the letter of the CD-ROM drive.

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When the Welcome screen appears, select **Remove** and click **Next**.

When asked if selected applications should be completely removed, click **Yes**.

If a message appears indicating that a file was detected that may no longer be needed by any application but deleting the file may prevent other applications from running, click **Yes**.

If a message is received indicating that locked files were detected, click **Reboot**.

In the Maintenance Complete screen, click **Finish**.

If prompted to restart the computer, remove the CD from the computer CD-ROM drive and click **Yes**.

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